## $\underline{\text{Table 1}}$ - Monomers Used in Example 2

## Monofunctional Monomer:

2-EHA 2-Ethylhexyl acrylate

IOA Isooctyl acrylate

2-MTA 2-Methoxyethyl acrylate

EA Ethyl acrylate

MA Methyl acrylate

CHA Cyclohexyl acrylate

tBA t-Butyl acrylate

IBA Isobornyl acrylate

AA Acrylic acid

DPA Dicyclopentanyl acrylate

NVP N-Vinylpyrrolidone

Polyfunctional Monomer:

HDDA 1,6-Hexanediol diacrylate

NGTD Neopenthylglycolated trimethylolpropane

diacrylate

EBAD Ethoxylated bisphenol A diacrylate

PNGD Propoxylated neopentyl glycol diacrylate

ETPTA Ethoxylated trimethylolpropane triacrylate

TMPTA Trimethylolpropane triacrylate

<u>Table 2</u> - Resin Formulations Using Urethane Acrylate UX 4101 and the Mechanical Properties of Films Cured with Electron Beams

Tg of Tensile poly X strength (°C) (kg/cm²)
-65 20
-50 20
-50 30
-23 40
3 200
15 300
41 380
94 410
106 680
120 400
175 560
75 320
180
240

<u>Table 3</u> - Resin Formulations Using Urethane Acrylate UV 7700B and the Mechanical Properties of Films Cured with Electron Beams

temperature (°C) -	emperature (°C)	temperature (°C) - - -	emperature (°C) - - - - - - - - - - - - - - - - - - -	emperature (°C) - - - - - 45	emperature (°C) - - - - - 45 45	emperature (°C) - - - - - 45 45	emperature (°C) - - - - - 45 45	emperature (°C)
× × ×	x x x x	x x x x x	x x x x x 4	x x x x x d 0	x x x x x d 0 x	x x x x x d o x x	x x x x x d 0 x x x	x x x x x d 0 x x x x
x x o	x x 0 0	x x 0 0 0	x x 0 0 0 0	x x o o o o o	x x o o o o o o	x x o o o o o x	x x o o o o o o x x	x x o o o o o o x x x
20	20 20 110	20 20 110 3800	20 20 110 3800 8500	20 20 110 3800 8500 12400	20 20 110 3800 8500 12400	20 20 110 3800 8500 12400 300	20 20 110 3800 8500 12400 300 970	20 20 110 3800 8500 12400 300 970 2800
40	40 80 130	40 80 130 110	40 80 130 110 60	40 80 130 110 60 50	40 80 130 110 60 50	40 80 130 110 60 50 60 40	40 80 130 110 60 50 60 40	40 80 130 110 60 60 60 40 20 50
30	30 60	30 60 130 320	30 60 130 320 300	30 60 130 320 300 310	30 60 130 320 300 310	30 60 130 320 300 310 190	30 60 130 320 300 310 190 170	30 60 130 320 300 310 190 170 200
-50	-50	-50 -23 3 41	-50 -23 3 41 94	-50 -23 3 41 94 120	-50 -23 3 41 94 120	-50 -23 3 41 94 120	-50 -23 3 41 94 120	-50 -23 3 41 94 120
60/40	60/40	60/40	60/40 60/40 60/40 60/40	60/40 60/40 60/40 60/40 60/40	60/40 60/40 60/40 60/40 60/40 95/5	60/40 60/40 60/40 60/40 60/40 95/5	60/40 60/40 60/40 60/40 60/40 95/5 95/5	60/40 60/40 60/40 60/40 60/40 95/5 95/5 80/20
					4 V	A A C	A A A A A A A A A A A A A A A A A A A	EA MA tBA TBA DPA HDDA HDDA HDDA PNGD
	3 130 130 x ×	3 130 130 110 o × 41 320 110 3800 o ×	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	3         130         130         110         ο         ×           41         320         110         3800         ο         ×           94         300         60         8500         ο         Δ           120         310         50         12400         ο         ο         ο	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	3         130         130         110         ο         ×           41         320         110         3800         ο         ×           94         300         60         8500         ο         Δ           120         310         50         12400         ο         ο         ο           190         60         300         ο         ×         κ           170         40         970         ×         ×	3         130         110         0         ×           41         320         110         3800         0         ×           94         300         60         8500         0         △           120         310         50         12400         0         0         0           120         190         60         300         ×         ×         ×           200         20         2800         ×         ×         ×	3         130         130         110         0         ×           41         320         110         3800         0         ×           94         300         60         8500         0         △           120         310         50         12400         0         ○         ○           120         190         60         300         ×         ×         ×           200         20         2800         ×         ×         ×         ×           180         50         320         ×         ×         ×         ×